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Construction of an explicit basis for rules admissible in modal system S4. (English)

Zbl 0992.03027

Math. Log. Q. 47, No. 4, 441-446 (2001).

Summary: We find an explicit basis for all admissible rules of the modal logic S4. Our basis consists of an infinite sequence of rules which have a compact and simple, readable form and depend on an increasing set of variables. This gives a basis for all quasi-identities valid in the free modal algebra $\mathcal{F}_{S4}(\omega)$ of countable rank.

MSC:

03B45 Modal logic (including the logic of norms)

03G25 Other algebras related to logic

Cited in **12** Documents

Keywords:

admissible inference rules; basis for admissible rules; basis for quasi-identities; modal logic S4; free modal algebra

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